

## ABSTRACT OF THE DISCLOSURE

5       A pulse number control circuit inputs, to a charge pump circuit, pulses of a number according to digital data constituted of weighted data bits. The charge pump circuit includes a pump capacitor connected between a first node to which the pulses are input and a second node, a switch element connected between the second node and an output node, and a bias circuit. According to a change of a voltage on the output node, the bias circuit changes a voltage on the second node with the same polarity.